

ESTRO 36, 5-9 MAY 2017, VIENNA, AUSTRIA

SATURDAY, 6 MAY 2017

	CLINICAL MEETING	INTERDISCIPLINARY MEETING	BIENNIAL PHYSICS MEETING	BIENNIAL PHYSICS MEETING	RTT MEETING	PREVENT MEETING	GEC-ESTRO MEETING	GEC-ESTRO MEETING	
08:00-08:40	Teaching Lecture The role of radiotherapy in small cell lung cancer-current status and future developments	Teaching Lecture Immunotherapy	Teaching Lecture MRI for RO physicists: what is what? QA geometrical distortions	Teaching Lecture Cavity Theory: how can we separate the facts from the myths?	Teaching Lecture High tech or low tech for metastatic disease, how does one decide and what is the cost-benefit?	Teaching Lecture Gene editing: How this technique can be used to study radiation responses?	Teaching lecture Target delineation and target definition for PBI		
08:45-10:00	Symposium How to move forward in NSCLC?	Symposium Radiotherapy plus immunotherapy combination: rationale and results so far The immune-modulatory effect of radiotherapy on the tumour micro-environment: friend or foe? The impact of tumour infiltrating lymphocytes on clinical outcome after (chemo)radiotherapy Radiotherapy and immunotherapy combination: paradigm changing or just	Symposium Particle therapy I	Symposium CT imaging, new developments Current status and potential of dual energy and spectral CT New CT reconstruction methods for artifact reduction and optimised image quality The potential of new CT technologies for radiotherapy with photons and protons	Symposium High tech or low tech for metastatic disease, how does one decide and what is the cost-benefit? Palliative workflow Evaluation of time, attendance of medical staff, and resources during stereotactic radiotherapy / radiosurgery: QUIRO-DEGRO trial High tech approaches for curative treatment, when is enough enough?	Symposium Novel approaches in heart matters State of the art in heart effects Pharmacological modulation of cardiac radiation injury	Symposium Expanding brachytherapy indications How the interventional radiologist can support brachytherapy implantations The technique for CT/MR guided hepatic implantations Tracking technologies for navigation in brachytherapy implantations Using multiparametric US to redefine target volumes in brachytherapy		Poster Viewing 1

		hype?							
10:00-10:30	Coffee Break								
10:30-11:30	MTB HNSCC	Symposium Response adapted treatment Mechanisms and biomarkers of tumour response heterogeneity Response optimised treatment planning and guidance Current status and future perspective of response adaptation	Proffered Papers	Proffered Papers	Proffered Papers	Symposium Novel approaches in gut matters State of the art in gut effects Novel developments in mechanisms and prevention of gastrointestinal toxicities	Proffered Papers	Proffered Papers	Poster Viewing 2
11:40-12:10	Van der Schueren Award Lecture								
12:10-12:40	Iridium Award Lecture								
12:40-13:00	Honorary Physicist Award Lecture								
13:00-14:45	13:30-14:30 <i>Physics Members Assembly</i> Lunch, Satellite Symposium, Poster Viewing								
14:45-16:00	Symposium The optimal approach to treat oligometastatic disease: different ways to handle an indication quickly gaining acceptance Clinical	Symposium Targeting tumour heterogeneity Using heterogeneous brachytherapy dose distribution to target tumour cell heterogeneity The challenges of targeting tumour	Symposium Particle therapy II	Symposium Imaging for therapeutic response / toxicity evaluation Functional imaging as biomarker for toxicity response Imaging tumour response to neoadjuvant	Symposium Immobilisation and motion management, including comfort for patients Immobilising the patient to be as comfortable as possible. A general overview Motion control of	Symposium Novel approaches in brain matters Effect of radiation on CNS stem cells Amelioration of CNS damage using stem cell approaches	Symposium Brachytherapy pays Introducing the GEC-Hero initiative Current knowledge on QALY for brachytherapy Optimal utilisation of		Poster Viewing 3

	<p>approach to abscopal effects</p> <p>What is the purpose of surgical mastectomy and do we achieve it?</p> <p>What is the indication and what is the aim of clinical treatment: radiotherapy</p> <p>What is the indication and what is the aim of clinical treatment: systemic treatment</p>	<p>heterogeneity in the field of radiation oncology</p> <p>The impact of tumour heterogeneity on radiation therapy outcomes</p>		<p>treatment in GI tumours</p> <p>Imaging in animals</p>	<p>the patient, using the exactrac system</p> <p>Motion of liver tumours using Active Breathing Control: keeping the margins small and the patient comfortable</p>		<p>brachytherapy in Europe - can it be measured?</p> <p>Economic evaluation of radiotherapy including brachytherapy for cancer – pitfalls</p>			
16:00-16:30	Coffee Break									
16:30-17:30	Proffered Papers	<p>Symposium</p> <p>Oligometastatic disease</p>	Proffered Papers	Proffered Papers	Proffered Papers	<p>Symposium</p> <p>Novel approaches in particle biology</p> <p>The ESTRO initiative on biological effects of particle therapy</p> <p>RBE of protons</p> <p>A small animal tumour model for low-energy accelerated particles</p> <p>Novel models in particle biology research</p>	Proffered Papers	Proffered Papers	Poster Viewing 4	
17:40-18:25	Honorary Members' Award Lectures									
18:30-	Poster Reception and Poster Awards									

SUNDAY, 7 MAY 2017

	CLINICAL MEETING	INTERDISCIPLINARY MEETING	BIENNIAL PHYSICS MEETING	BIENNIAL PHYSICS MEETING	RTT MEETING	PREVENT MEETING	GEC-ESTRO MEETING	GEC-ESTRO MEETING		
08:00-08:40	Teaching Lecture Role of radiotherapy in extranodal lymphomas	Teaching Lecture Strategies to increase safety in radiation oncology: how to make accidents less likely to occur	Teaching Lecture Automated planning, knowledge-based planning and other novel developments in treatment planning - how do they work and perform?	Teaching Lecture Building of NTCP models that contain non-dosimetric parameters	Teaching Lecture Particle therapy: how to start up and carry out daily clinical practice	Teaching Lecture Three-dimensional organoid culture system	Teaching lecture Commissioning of brachytherapy TPS elements: applicator library, volumetry, dose data and algorithms			CW 2
08:45-10:00	Symposium New developments in Personalised Radiation Oncology (PRO) E-health and PRO: mobile technology and wearable sensors Integration and analysis of complex data for PRO Innovative clinical trial designs for PRO Decision support systems and shared decision making	Symposium Safety and clinical and cost effectiveness of multi-modality IGRT and ART What evidence is needed to assess cost-effectiveness of new technology and how can we get it (easily)? Tips and tricks for safe and effective routine clinical application Do we have the (software) tools for safe application? Development of procedures for safe clinical application of plan-of-the-day adaptive radiotherapy	Symposium Robust optimisation in protons and photons What is the actual robustness of the plans we deliver in clinical particle therapy practice, and what measures do we take to obtain it? Minimax robust optimisation applied to IMPT for oropharyngeal tumours Clinical implementation of coverage probability planning in cervix cancer	Symposium Ultra fast online therapy adaptation (replanning, dose accumulation QA) Automatic image segmentation for on-line adaptive RT Ultrafast treatment planning and dose reconstruction Online tumour tracking – technology and quality assurance	Symposium Particle therapy: how to start up and carry out daily clinical practice RTTs skills for proton therapy – how and what to include in a learning programme How to start up a proton therapy department – the point of view of a RTT Workflow in a proton therapy department – real difference from photon therapy?	Symposium Combining tumour and normal tissue models Novel approaches in the study of bladder cancer Combining tumour and lung tissue radiation	Symposium Paediatric brachytherapy The AMORE concept and late effects outcome for paediatric brachytherapy Brachytherapy for bladder/prostate rhabdomyosarcoma: clinical outcome and functional results Intraoperative HDR in paediatric brachytherapy		Poster Viewing 5	

10:00-10:30	Coffee Break									
10:30-11:30	MTB Lymphoma	Symposium Clinical impact of waiting times	Proffered Papers	Proffered Papers	Proffered Papers	Proffered Papers	Proffered Papers	Proffered Papers	Proffered Papers	Poster Viewing 6
11:40-12:10	Presidential Symposium									
12:10-12:30	Jens Overgaard Legacy Award (20 min)									
12:30-13:00	Regaud Award Lecture (25 minutes)									
13:00-14:45	13:30-14:30 GEC-ESTRO Assembly Lunch, Satellite Symposium, Poster Viewing									
14:45-16:00	Symposium New paradigm in HNSCC Modern biomarkers for therapeutic strategy: radiation dose or volume modification The changing role of the head and neck surgeon in HPV-positive oropharyngeal squamous cell carcinoma, or do we still need surgery? Radiation de-escalation strategies in HPV-positive squamous cell carcinoma	Symposium Costs and value of radiotherapy innovations: how to assess Health Technology Assessment: what's in a word? Radiotherapy costs: the good, the bad and the ugly Method of development of ESMO Magnitude of Clinical Benefit applicable for radiotherapy	Debate This house believes that proton guided photons will be superior to photon guided protons	Proffered papers	Symposium Focus on ART: the clinical difficulties Multi-parametric functional PET/MR imaging for RT individualisation Metabolic and functional MRI for glioblastoma dose-painting trial RAIDER study on plan of the day and dose-escalation for bladder cancer	Symposium	Symposium	Symposium Registration and fusion techniques Rigid registration techniques for different imaging modalities Deformable registration for dose summation Imaging and fusion techniques for focal brachytherapy		Poster Viewing 7
16:00-16:30	Coffee Break									
16:30-17:30	Proffered Papers	Symposium Global Task	Proffered Papers	Proffered Papers	Proffered Papers	Proffered Papers	Proffered Papers	Proffered Papers	Proffered Papers	Poster Viewing 8

		Force on Radiotherapy for Cancer Control								
17:40- 17:50	Academic Award Lecture Jack Fowler University of Wisconsin Award:									
17:50- 18:10	Company Award Lectures ESTRO-Varian Award: ESTRO-Accuray Award:									

MONDAY, 8 MAY 2017

	CLINICAL MEETING	CLINICAL MEETING	INTERDISCIPLINARY MEETING	TARGET MEETING	BIENNIAL PHYSICS MEETING	BIENNIAL PHYSICS MEETING	RTT MEETING	YOUNG TRACK		
08:00-08:40	Teaching Lecture State of the art multimodality treatment of rectal cancer	Teaching Lecture SBRT for vertebral metastases: experimental or routine practice?	Teaching Lecture Challenges in proton radiotherapy How to reduce range uncertainties Adaptation to anatomical changes: needs and pitfalls	Teaching Lecture HDAC inhibitors and chromatin	Teaching Lecture State of the art and future improvements in in-room cone beam CT image quality	Teaching Lecture Radiomics for physicists – understanding feature extraction, quality, selection, prediction modelling, statistics, performance validation and possible applications of radiomics in clinical routine	Teaching lecture Focus on lung cancer: what a radiotherapy department should offer their patients	Teaching Lecture 'Show me the money': Tips and tricks on how to write successful grant proposals		CW 3
08:45-10:00	Symposium Rectal cancer – prediction and individualisation Sequence of radiotherapy, chemotherapy, and surgery: current concepts and trials Organ preservation by optimised chemoradiotherapy: ready for prime time? Imaging and molecular profiles to predict response to chemoradiotherapy: where do we stand?	Symposium Radiotherapy of brain tumours Radiotherapy for low grade glioma in adults: risk group stratification and clinical evidence Radiotherapy for anaplastic grade III glioma in adults: what is the role of combined chemotherapy? 'Paediatric' brain tumours in adults	Symposium MR guided radiotherapy: the new standard of care in 10 years time Clinical opportunities with MR guided external beam radiotherapy MR guided brachytherapy - successes and potential future developments Challenges associated with MR guided radiotherapy Can we perform RCTs evaluating MR guided	Symposium Novel approaches in head and neck tumour control State of the art in head and neck tumour radiobiology Novel developments in the radiobiology of HPV-positive head and neck tumours	Symposium Experimental therapies Grid therapy Strategies for radiosensitisation with gold nanoparticles Potentials of Cerenkov imaging in radiotherapy	Symposium Adaptive radiotherapy (both anatomical and 'functional' changes) Image registration and dose accumulation Adaptive strategies to account for anatomical changes Adaptive strategies to account for functional changes	Symposium Focus on lung cancer: what a radiotherapy department should offer their patients Optimal delineation ART in lung cancer: when and for whom? Improvements in physics, DIBH in lung	Career Symposium Education and research grants ERC grants - how to succeed ESTRO educational grants and mobility grants	Poster Viewing 9	

			radiotherapy?							
10:00-10:30	Coffee Break									
10:30-11:30	Proffered Papers	MTB Brain metastases	Symposium Radiomics and imaging databases for precision radiation oncology	Symposium Novel approaches in prostate tumour control State of the art in prostate tumour radiobiology Novel developments in molecular targeting of prostate cancer	Proffered Papers	Proffered Papers	Proffered Papers	Keynote Lecture	Poster Viewing 10	
11:40-11:50	Donal Hollywood Award									
11:50-12:30	Highest Scoring Abstracts									
12:30-13:00	Breur Award Lecture									
13:00-14:45	Lunch, Satellite Symposium, Poster Viewing									
14:45-16:15	Symposium Non-rectal GI tumours: key open questions to be answered from (and for) the radiation oncologist! Radio(chemo)therapy in oesophageal cancer: can we do better? Does radiotherapy still have a role in the management of pancreatic cancer? Standard treatment in anal cancer: where do	Symposium Locally advanced breast cancer Personalised local and locoregional radiotherapy in breast cancer Where should we place radiotherapy in high risk cases: before or after surgery? Radiotherapy after complete response after neoadjuvant CHT. Is it needed?	Symposium From big data to better radiotherapy	Symposium Novel approaches in lung tumour control State of the art in lung cancer radiobiology Secretome as novel target for lung cancer	Debate	Proffered papers	Symposium Focus on prostate cancer: what is the best radiotherapy we need to treat our patients with What are the best ingredients to deliver the optimal radiotherapy for prostate cancer? Spacer / hypofractionation Using an MR Linac for prostate cancer patients	Scientific symposium Young ESTRO meets ESTRO School Introduction and presentation of FALCON (Fellowship in Anatomic delineation and CONtouring) on-line contouring system as a tool for e-learning Lung cancer Cervical cancer Rectal cancer	Poster Viewing 11	

	we stand and where should we go?									
16:15-16:45	Coffee Break									
16:45-17:45	Proffered Papers	Proffered Papers	Symposium Patient Reported Outcomes (PROs) in radiotherapy Differences between PRO and clinician reported morbidity and associations to clinical outcome Collecting PROs in routine clinical practice to assess radiotherapy toxicity and develop normal tissue complication probability models PROs instruments used in clinical trials	Symposium Novel approaches in colorectal tumour control State of the art in colorectal cancer Immunobiology of gastro-intestinal tumours	Proffered Papers	Proffered Papers	Proffered Papers	16:45-17:00 Info from yESTRO Activities and short report from Agora 17:00-17:15 Interactive quiz 17:15-18:00 Young reception	Poster Viewing 12	
17:50	ESTRO General Assembly									
22:00	Social Event									

TUESDAY, 9 MAY 2017

	CLINICAL MEETING	INTERDISCIPLINARY MEETING	TARGET MEETING	BIENNIAL PHYSICS MEETING	BIENNIAL PHYSICS MEETING	RTT MEETING	
08:30-09:10	Teaching Lecture New radiotherapeutic horizons in soft tissue sarcoma treatment	Teaching Lecture Clinical evidence for hypofractionation in prostate cancer: what is the optimum?	Teaching Lecture Microvesicles and circulating tumour/DNA in radiation oncology	Teaching Lecture Update in nuclear medicine for radiation oncology	Teaching Lecture Basics, implementations, limitations, ... of Monte Carlo dose calculation algorithms	Teaching Lecture New roles in advanced practice for RTTs	CW 4
09:15-10:30	Symposium Radiotherapy in the elderly Radiotherapy in elderly rectal cancer patients Breast cancer Glioblastoma Lung	Symposium Selection of patients and radiotherapy technique for APBI in the light of new phase III trial data Target coverage and dose to organs at risk using different techniques of APBI (EBI, IORT, BT) External beam partial breast irradiation: changing patient selection based on current evidence Partial breast irradiation with brachytherapy: changing patient selection based on current evidence	Symposium Novel approaches in poor tumour control sites Use of radiopharmaceuticals in pancreatic cancer Contribution of microenvironment of malignant gliomas to angiogenesis mRNA-based vaccines and Lewis lung cancer	Symposium 4D imaging and tracked delivery MLC tracking: from bench to bedside Motions models and tracking using MR Tracking using electromagnetic transponder	Symposium Modelling and treatment customisation Developments in head and neck toxicity data, models, and treatment optimisation New NTCP data in the thoracic region New NTCP data in the pelvic area	Symposium RT is technology driven. How to keep the patient involved?	
10:30-11:00	Coffee Break						
11:00-12:00	Symposium Hypofractionation in prostate cancer Moderate hypofractionation in prostate cancer: what have we learnt from phase 3 trials Extreme	Symposium Is there any ground for boost brachytherapy in the time of high precision IGRT/IMRT? The efficacy of IGRT/IMRT simultaneous integrated boost (SIB) in	Symposium Novel approaches in tumour control Molecular mechanisms of radiation-induced in situ tumour vaccination Novel developments in paediatric cancer	Symposium Applications and challenges in dosimetry for MR-linacs Pre-treatment phantom dosimetry: effects in different phantoms and detectors	Symposium Novel approaches for combining imaging and non-imaging data for radiotherapy response prediction Modelling the relation among volume, vascularisation and radio-sensitivity in	Debate Lost in technology. more and more technology involved in patient treatment - are we still interacting with patients?	

	<p>hypofractionation – the future of prostate care or repeating past mistakes?</p> <p>Hypofractionation in prostate cancer: a word of caution</p>	<p>gynaecology and breast</p> <p>Dose gradients: the effect of high doses inside the CTV comparing boost brachytherapy with SIB</p> <p>Why use invasive techniques for boost if IGRT is more comfortable for the patient?</p>		<p>Reference dosimetry: getting the basics and calibration right</p> <p>Clinical commissioning of MR guided treatment systems</p>	<p>cervical cancer exploiting Doppler ultrasonography data</p> <p>Machine learning and bioinformatics approaches to combine MP data for outcome prediction</p> <p>Tissue classification models based on imaging and non-imaging</p>		
12:00-13:00	Closing Debate						
13:00	Conclusive Remarks						